AMENDMENTS TO THE CLAIMS

1	1. (Previously Presented) A serial communications system comprising:
2	a scrambler for converting original received data into scrambled data; and
3	an ECC encoder for converting said scrambled data into ECC-encoded data.
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l	2. (Original) The system as recited in Claim 1, further comprising:
2	a serializer for converting said ECC-encoded data into serialized data;
3	wherein the ECC-encoded data includes frame alignment information; and
4	the system further comprises a receiver for receiving said serialized data and
5	converting the serialized data into data frames based upon the frame alignment information.
1	3. (Original) The system as recited in Claim 2, wherein the receiver comprises:
2	a frame-recoverer for converting said serialized data into data frames;
3	an ECC decoder for converting said data frames into ECC-decoded data and
4	error indications; and
5	a scrambler for converting said ECC-decoded data into de-scrambled data.
l	4. (Currently Amended) The system as recited in Claim [[5]] 3, wherein said frame-
2	recoverer uses said error indications in converting said serialized data into data frames.
l	5. (Original) The system as recited in Claim 1, wherein said ECC encoder applies an
2	error correction code in converting said scrambled data into said ECC-encoded data.
l	6. (Previously Presented) A serial communications method, comprising the steps of:
2	converting original received data into scrambled data; and
3	converting said scrambled data into ECC-encoded data.

1	7. (Original) The method as recited in Claim 6, further comprising the steps of:
2	generating a serial stream of the ECC-encoded data; and
3	transmitting said serial stream.
1	8. (Original) The method of Claim 7, wherein:
2	the ECC-encoded data includes frame alignment information; and
3	the method further comprises receiving said serialized data and converting
4	said serialized data into data frames based upon said frame alignment information.
1	9. (Original) The method of Claim 7, further comprising:
2	receiving said serialized data;
3	converting said serialized data into data frames;
4	converting said data frames into ECC-decoded data and error indications; and
5	converting said ECC-decoded data into de-scrambled data.
1	10. (Original) The method of Claim 9, wherein the step of converting the serialized
2	data comprises converting the serialized data into data frames based upon said error
3	indications.
1	11. – 33. (canceled)
1	34. (Currently Amended) A serial communication system comprising:
2	a scrambler for converting received data into scrambled data, said received
3	data being without redundant bits inserted by said serial communication system or being re-
4	encoded by said serial communiction system; and
5	an ECC encoder for converting said scrambled data into ECC-encoded data.